

# **PROTECTANT APPLICATION**

## **Abstract**

A hand-held nozzle is attached to the end of a vacuum and fluid delivery hose of an upright deep cleaner. The nozzle includes a reservoir to contain a solution to be applied to a surface. When a solution delivery system of the deep cleaner is pressurized, water from the upright cleaner clean water tank is routed through the hose to the hand-held nozzle. The water is routed through a venturi valve connected to the reservoir, which draws the solution to the valve to mix with the water stream. The resultant mixture flows from the hand-held nozzle for application to a surface being treated. One embodiment of the solution reservoir includes a retainer cap bonded to the reservoir and utilizing a bayonet-type mounting arrangement for mounting the reservoir to a nozzle assembly.